July 25, 1933. B. BOESWINKLE 1,919,613

FOLDING TABLE

Filed Nov. 10, 1931

Fig. 1.

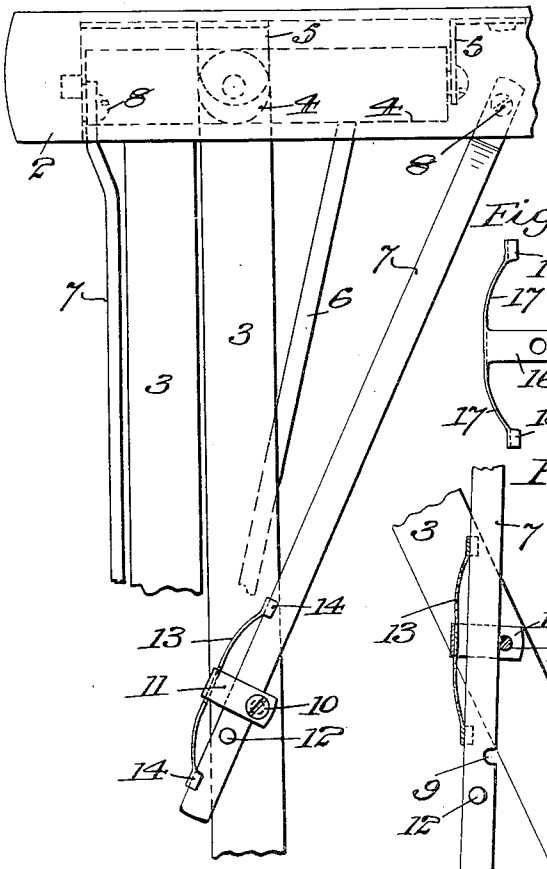


Fig. 2.

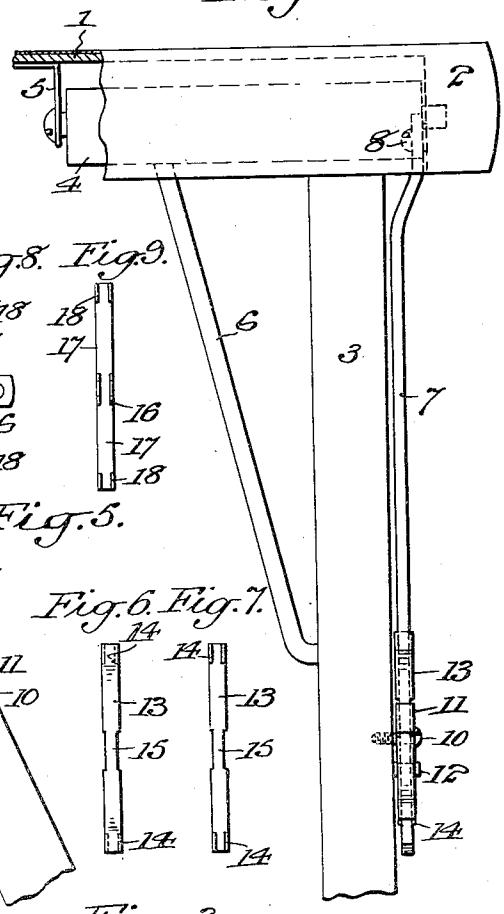


Fig. 8.

Fig. 9.

Fig. 5.

Fig. 6.

Fig. 7.

Fig. 3.

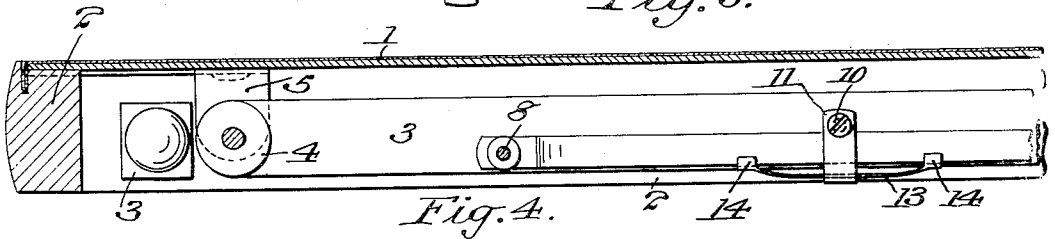
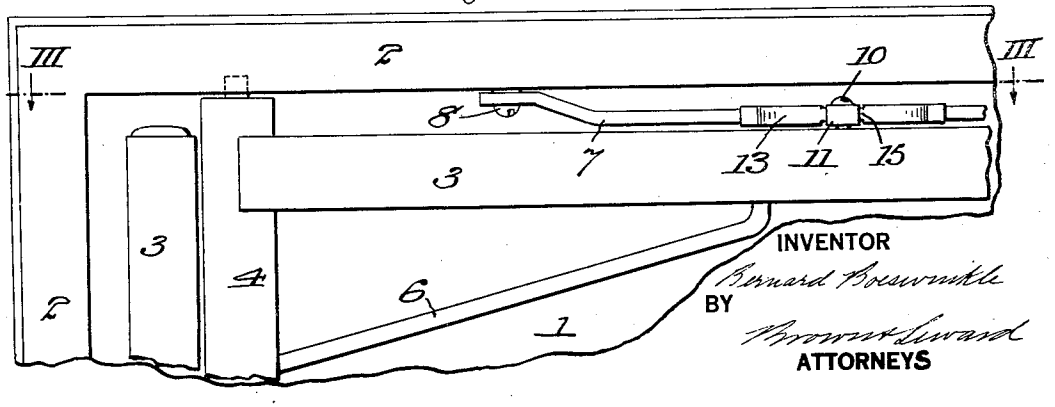


Fig. 4.



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UNITED STATES PATENT OFFICE

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FOLDING TABLE

Application filed November 10, 1931. Serial No. 574,079.

The object of my invention is to provide, in a folding table, a novel spring means for ensuring the locking coaction of the folding braces with their folding legs when the legs are unfolded; said spring means also serving, by their pressure on the leg braces, to frictionally hold the legs in their folded position.

My invention generally comprises a keeper pivoted on each of the folding legs, a folding brace slidable in the keeper and a spring located at the keeper and slidable on the brace, said spring ensuring the locking coaction of the brace and keeper when the leg and brace are unfolded.

My invention specifically comprises a keeper having a bow spring for the above purpose, said spring slidably engaging the folding brace upon opposite sides of the keeper. In one form of my invention the keeper and spring are separable, means being provided for positioning the spring against longitudinal displacement in the keeper and against lateral displacement on the brace. In another form of my invention the keeper and spring are formed integral, means being provided for positioning the spring against lateral displacement on the brace.

A practical embodiment of my invention is represented in the accompanying drawing in which:

Fig. 1 represents a detail side elevation at one corner of the table with the legs shown in their unfolded position;

Fig. 2 represents a similar view taken at right angles to Fig. 1;

Fig. 3 represents a detail longitudinal vertical section taken in the plane of the line III—III of Fig. 4, looking in the direction of the arrows;

Fig. 4 represents a detail inverted plan view of the table with its legs in their folded position;

Fig. 5 represents a detail longitudinal vertical section showing the spring pressed sliding connection between the folding leg brace and keeper when the parts are in an intermediate position;

Fig. 6 represents a front view of the bow spring for exerting locking pressure on the folding leg brace;

Fig. 7 represents a rear view of the same;

Fig. 8 represents a side view of a modified form in which the keeper and spring are formed in one piece; and

Fig. 9 represents a rear view of the same.

The table top is denoted by 1 and its peripheral frame by 2. Each of the folding legs 3 is shown as provided with a laterally extended hub 4, pivotally mounted between the frame 2 and a plate 5. A rigid diagonal brace 6 is shown as leading from the hub to the leg.

One end of a folding leg brace 7 is pivoted at 8 to the inner face of one of the top frame sides, which folding brace has a notch 9 near its outer end arranged to coact with a keeper pivot pin 10 to lock the leg and brace in their unfolded positions. A U-shaped keeper 11, preferably formed of sheet metal, is mounted to swing on the pivot pin 10, through which keeper the folding brace 7 slides as the leg and brace are moved to their folded and unfolded positions.

A stop pin 12 is located on the folding brace 7 in position to limit the unfolding movement of the leg.

Spring means are provided at the keeper 11 for ensuring the coaction of the notch 9 in the folding leg brace 7 with the pivot pin 10 on the leg when the leg is unfolded, to lock the leg and brace in their unfolded position.

In the form shown in Figs. 1 to 7 inclusive, this spring means is shown as a bow spring 13, separate from the keeper, said spring slidably engaging the folding brace 7 upon opposite sides of the keeper, the ends of the spring having depending ears 14 for positioning the spring on the brace against lateral displacement. The intermediate portion of the spring is reduced as shown at 15 to form shoulders engaging the opposite sides of the keeper, to position the spring in the keeper against longitudinal displacement with respect thereto.

In the form shown in Figs. 8 and 9, the keeper 16 is provided with integral oppositely projecting branches 17 forming a bow

spring. These branches are provided with depending ears 18 for positioning the free ends of the branches on the folding brace 7 against lateral displacement with respect thereto.

From the above description it will be seen that I have provided efficient means for ensuring the locking coaction of the folding leg and its folding brace when the leg reaches its unfolded position. To release the leg and brace to permit them to be folded, the brace may be manually lifted against the tension of the spring sufficiently to release its notch 9 from engagement with the keeper pivot pin 10. The tension of the spring should be sufficient to retain the leg and brace in their folded positions, against unintentional movement.

It is evident that various changes may be resorted to in the construction, form and arrangement of the several parts without departing from the spirit and scope of my invention, and hence I do not intend to be limited to the particular embodiment herein shown and described, but

What I claim is:

1. In a table, a folding leg, a keeper thereon, a folding brace slidable in the keeper and arranged to coact therewith a lock the leg in its unfolded position, and a spring at the keeper, slidably engaging the brace and tending to force the brace into its locking position, said spring being provided with means to prevent its lateral displacement on the brace.

2. In a table, a folding leg, a keeper thereon, a folding brace slidable in the keeper and arranged to coact therewith to lock the leg in its unfolded position, and a bow spring at the keeper, slidably engaging the brace upon opposite sides of the keeper and tending to force the brace into its locking position, said spring being provided with means to prevent its lateral displacement on the brace.

3. In a table, a folding leg, a keeper pivotally mounted thereon, a folding brace slidable in the keeper and provided with a notch arranged to coact with the keeper pivot to lock the leg in its unfolded position, and a bow spring positioned in the keeper, slidably engaging the brace upon opposite sides of the keeper and tending to force the brace into its locking position, said spring being provided with shoulders to prevent its longitudinal displacement in the keeper and also provided with ears overlapping the brace to prevent its lateral displacement thereon.

4. In a table, a folding leg, a keeper thereon, a folding leg brace slidable in the keeper and arranged to coact therewith to lock the leg in its unfolded position, and a spring slidably engaging the brace and tending to force the brace into its locking position, said keeper and spring being formed integral.

5. In a table, a folding leg, a keeper thereon, a folding leg brace slidable in the keeper and arranged to coact therewith to lock the leg in its unfolded position, and a bow spring slidably engaging the brace upon opposite sides of the keeper and tending to force the brace into its locking position, said keeper and spring being formed integral.

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